



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name TRANSFORMER TESTING LABORATORY-TBI, SCHNEIDER ELECTRIC INFRASTRUCTURE LIMITED, MILE STONE 87, BARODA-HALOL HIGHWAY, KOTAMBI VILLAGE, PO JAROD, VADODARA, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8252 Page No. : 1 / 12

Validity 01/01/2019 to 31/12/2020 Last Amended on -

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution Transformer	No Load Current	IS 1180 (Part 1): 2014
2	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution transformer	No Load Current	IEEE C.57.12.90: 2015
3	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution Transformer	No Load Loss	IS 1180 (part 1): 2014
4	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution Transformer	No load loss	IEC 60076 (Part 1): 2011
5	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution Transformer	No Load Loss	IEEE C.57.12.90: 2015
6	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution transformer	No Load Current	IEC 60076 (Part 1): 2011
7	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution Transformers	Acoustic Noise Level (Audible Sound Emissions)	IS 1180 (Part 1): 2014
8	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution Transformers	Acoustic Noise Level (Audible Sound Emissions)	IEC 60076 (Part 10): 2001
9	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution Transformers	Acoustic Noise Level (Audible Sound Emissions)	IEEE C.57.12.90: 2015



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10	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution Transformers	Applied Voltage	IEC 60076 (Part 3): 2013
11	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution Transformers	Applied Voltage	IEEE C.57.12.90: 2015
12	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution Transformers	Induced AC Voltage	IS 1180 (Part 1): 2014
13	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution Transformers	Induced Voltage	IEC 60076 (Part 3): 2013
14	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution Transformers	Induced Voltage	IEEE C.57.12.90: 2015
15	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution Transformers	Insulation resistance	IS 1180 (part 1): 2014
16	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution Transformers	Insulation Resistance	IEC 60076 (Part 1): 2011
17	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution Transformers	Insulation Resistance	IEEE C.57.12.90: 2015
18	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution Transformers	Lightning Impulse Test	IS 1180 (Part 1): 2014



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19	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution Transformers	Lightning Impulse Test	IEC 60076 (Part 3): 2013
20	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution transformers	Lightning Impulse Test	IEEE C.57.12.90: 2015
21	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution Transformers	Load Loss	IS 1180 (Part 1): 2014
22	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution Transformers	Load Loss	IEC 60076 (Part 1): 2011
23	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution Transformers	Load Loss	IEEE C.57.12.90: 2015
24	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution Transformers	Magnetic Balance	CBIP Manual Pub. No 295: 2006
25	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution Transformers	Polarization Index	CBIP Manual Pub.No.295: 2006
26	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution Transformers	Separate Source voltage withstand test	IS 1180 (Part 1): 2014
27	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution Transformers	Short Circuit Impedance	IS 1180 (Part 1): 2014



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28	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution Transformers	Short Circuit Impedance	IEC 60076 (Part 1): 2011
29	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution Transformers	Short Circuit Impedance	IEEE C.57.12.90: 2015
30	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution Transformers	Temperature Rise Test	IS 1180 (Part 1): 2014
31	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution Transformers	Temperature Rise Test	IEC 60076 (Part 2): 2011
32	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution Transformers	Temperature Rise Test	IEEE C.57.12.90: 2015
33	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution Transformers	Voltage Ratio and check of voltage vector relationship	IS 1180 (Part 1): 2014
34	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution Transformers	Voltage Ratio and check of voltage vector relationship	IEC 60076 (Part 1): 2011
35	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution Transformers	Voltage Ratio and check of voltage vector relationship	IEEE C.57.12.90: 2015
36	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution Transformers	Winding Resistance	IEC 60076 (Part 1): 2011



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37	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution Transformers	Winding Resistance	IEEE C.57.12.90: 2015
38	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution transformers	Winding Resistance	IS 1180 (Part 1): 2014
39	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution transformers	Zero sequence Impedance	IEC 60076 (Part 1): 2011
40	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution Transformers	Zero Sequence Impedance	IEEE C.57.12.90: 2015
41	ELECTRICAL-INDUCTORS & TRANSFORMERS	Dry Type Distribution Transformer	No Load Loss	IS 11171 : 1985
42	ELECTRICAL-INDUCTORS & TRANSFORMERS	Dry Type Distribution transformer	No Load Current	IS 11171 : 1985
43	ELECTRICAL-INDUCTORS & TRANSFORMERS	Dry type distribution Transformers	Acoustic Noise Level (Audible Sound Emissions)	IS 11171: 1985
44	ELECTRICAL-INDUCTORS & TRANSFORMERS	Dry Type Distribution Transformers	Induced AC Volatge	IS 11171: 1985
45	ELECTRICAL-INDUCTORS & TRANSFORMERS	Dry Type Distribution Transformers	Lightning Impulse Test	IS 11171: 1985



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46	ELECTRICAL-INDUCTORS & TRANSFORMERS	Dry Type Distribution Transformers	Load Loss	IS 11171: 1985
47	ELECTRICAL-INDUCTORS & TRANSFORMERS	Dry Type Distribution Transformers	Separate Source voltage withstand	IS 11171: 1985
48	ELECTRICAL-INDUCTORS & TRANSFORMERS	Dry Type Distribution Transformers	Short Circuit Impedance	IS 11171: 1985
49	ELECTRICAL-INDUCTORS & TRANSFORMERS	Dry Type Distribution Transformers	Temperature Rise Test	IS 11171: 1985
50	ELECTRICAL-INDUCTORS & TRANSFORMERS	Dry Type Distribution Transformers	Voltage Ratio and check of voltage vector relationship	IS 11171: 1985
51	ELECTRICAL-INDUCTORS & TRANSFORMERS	Dry Type Distribution Transformers	Winding Resistance	IS 11171: 1985
52	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power & distribution Transformers	Capacitance- Winding to earth & between windings	IEC 60076 (Part 1): 2011
53	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power & Distribution Transformers	Capacitance-Winding to earth & between windings	IS 2026 (Part 1): 2011
54	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power & Distribution Transformers	Check of Insulation of Auxiliary wiring	IS 2026 (Part 3): 2009



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55	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power & Distribution Transformers	Check of Insulation of wiring	IEC 60076 (Part 3): 2013
56	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power & Distribution Transformers	Dissipation Factor	IS 2026 (Part 1): 2011
57	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power & Distribution Transformers	Dissipation Factor	IEC 60076 (Part 1): 2011
58	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power & Distribution Transformers	Harmonics of No Load Current	IS 2026 (Part 1): 2011
59	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power & Distribution Transformers	Insulation Power Factor	IEEE C.57.12.90: 2015
60	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power & Distribution Transformers	Sweep Frequency Response Analysis	IEC 60076 (Part 18): 2012
61	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power & Distribution transformers	Test on OLTC	IEC 60076 (Part 1): 2011
62	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power & Distribution Transformers	Zero Sequence Impedance	IS 2026 (Part 1): 2011
63	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power & Distribution Transformers	Test On OLTC	IS 2026 (Part 1): 2011



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64	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformer	No Load Current	IEEE C.57.12.90: 2015
65	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformer	No load Loss	IS 2026 (Part 1): 2011
66	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformer	No load Loss	IEC 60076 (Part 1): 2011
67	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformer	No Load Loss	IEEE C.57.12.90: 2015
68	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformer	No Load Current	IS 2026 (Part 1): 2011
69	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformer	No Load Current	IEC 60076 (Part 1): 2011
70	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers	Acoustic Noise Level (Audible Sound Emissions)	IEC 60076 (Part 10): 2001
71	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers	Acoustic Noise Level (Audible Sound Emissions)	IS 2026 (Part 10): 2009
72	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers	Acoustic Noise Level (Audible Sound Emissions)	IEEE C.57.12.90: 2015



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73	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers	Applied Voltage	IEC 60076: 2013
74	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers	Applied Voltage	IEEE C.57.12.90: 2015
75	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers	Induced AC Voltage	IS 2026 (Part 3): 2009
76	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers	Induced Voltage	IEC 60076 (Part 3): 2013
77	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers	Induced Voltage	IEEE C.57.12.90: 2015
78	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers	Insulation Resistance	IS 2026 (Part 1): 2011
79	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers	Insulation Resistance	IEC 60076 (Part 1): 2011
80	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers	Insulation resistance	IEEE C.57.12.90: 2015
81	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers	lightning Impulse Test	IS 2026 (Part 3): 2009



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82	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers	Lightning Impulse Test	IEC 60076 (Part 3): 2013
83	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers	Lightning Impulse Test	IEEE C.57.12.90: 2015
84	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers	Load Loss	IEC 60076 (Part 1): 2011
85	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power transformers	Load Loss	IS 2026 (Part 1): 2011
86	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers	Load Loss	IEEE C.57.12.90: 2015
87	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers	Magnetic Balance	CBIP Manual Pub. No 295: 2006
88	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers	Polarization Index	CBIP Manual Pub.No.295: 2006
89	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers	Power taken by Fan and oil pump motors	is 2026 (Part 1): 2011
90	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers	Power taken by Fan and oil pump motors	TEC 60076 (Part 1): 2011



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91	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers	Separate Source Voltage Withstand	IS 2026 (Part 3): 2009
92	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers	Short Circuit Impedance	IEC 60076 (Part 1): 2011
93	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers	Short Circuit Impedance	IS 2026 (Part 1): 2011
94	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers	Short Circuit Impedance	IEEE C.57.12.90: 2015
95	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers	Temperature Rise Test	IS 2026 (Part 2): 2010
96	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers	Temperature Rise Test	IEEE C.57.12.90: 2015
97	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers	Temperature Rise Test	IEC 60076 (Part 2): 2011
98	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers	Voltage Ratio and check of voltage vector relationship	IS 2026 (Part 1): 2011
99	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers	Voltage Ratio and check of voltage vector relationship	IEC 60076 (Part 1): 2011



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100	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers	Voltage Ratio and check of voltage vector relationship	IEEE C.57.12.90: 2015
101	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers	Winding Resistance	IS 2026 (Part 1): 2011
102	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers	Winding Resistance	IEC 60076 (Part 1): 2011
103	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers	Winding Resistance	IEEE C.57.12.90: 2015
104	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers	Zero sequence Impedance	IEC 60076 (Part 1): 2011
105	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers	Zero Sequence Impedance	IEEE C.57.12.90: 2015